

**REMARKS**

Claims 1-15 are pending in this application. By this Amendment, claims 1-3 are amended and claims 13-15 are added. Claims 1-3 are amended solely to correct grammar and to correct antecedent basis issues. No new matter is added. Reconsideration of the application is respectfully requested.

The drawings are objected to under 37 C.F.R. §1.83(a) for allegedly not showing the "in the other calculation stage rounding .... quotient" features of claims 1 and 3. Applicants submit that the dotted section B of Figure 2 is an exemplary illustration of one or more aspects of the above-identified feature of claims 1 and 3. Therefore, Applicants submit that the original drawings show every feature of the claims. It is respectfully requested that the objection be withdrawn.

Claims 1-12 are rejected under 35 U.S.C. §112, second paragraph for being indefinite. Specific language relating to lack of antecedent basis for features recited in claims 1-3 is identified as forming the basis for the rejection. Claims 1-3 are amended responsive to the rejection. It is respectfully requested that the rejection be withdrawn.

Claims 3, 6, 9 and 12 are rejected under 35 U.S.C. §102(b) over the related art discussed in the "Background of the Invention" section of the specification ("Related Art"). The rejection is respectfully traversed for at least the following reasons.

First, Applicants submit that the claim language recited in relation to claim 3 on page 4 of the Office Action does not apply to claim 3. For example, previously filed claim 3 did not recite "wherein the stage is coupled with two other calculation stages, in one calculation .... of the previous samples". It is believed that the Examiner may have intended for the rejection to be directed to claims 2, 5, 8 and 11, and for the rejection under 35 U.S.C. §103(a) to be directed to claims 1, 3, 4, 6, 7, 9, 10, and 12. For this reason, Applicants traverse the rejection in view of the features of all the claims.

The equations provided on page 1 of the specification do not involve the combination of features recited in claims 1 and 3, including, *inter alia*, changing a number obtained from rounding to a default integer value obtained from dividing the output value by a scale factor by a number obtained from rounding to a closest integer to the real-number quotient thereof. For at least these reasons, Applicants submit that the related art discussed in the specification does not disclose or suggest all the features of claim 3, as well as all the features of claims 6, 9 and 12, which depend from claim 3. It is respectfully requested that the rejection be withdrawn.

In addition, Applicants submit that the equations provided on page 1 of the specification do not involve the combination of features recited in claims 1 and 2, including, *inter alia*, applying a chosen scale factor to remainders of integer divisions, the remainders being a result of calculating the output values of the previous samples.

Claims 1-2, 4-5, 7-8, and 10-11 are rejected under 35 U.S.C. §103(a) over the Related Art in view of U.S. Patent No. 6,216,145 to Zandi et al. ("Zandi"). The rejection is respectfully traversed for at least the following reasons.

Pages 5-6 of the Office Action state that the Related Art discloses all the features of claims 1 and 2 except for the rounding features ("changing a number" feature of amended claims 1 and 3) of claims 1 and 3. As discussed above, Applicants submit that the Related Art does not disclose, for example, the "applying a chosen scale factor" feature of claims 1 and 2 or the "changing a number" features of claim 1 and 3. Applicants submit that Zandi also fails to disclose these features.

Zandi discloses a round-to-integer block 604 which rounds to the nearest integer (col. 19, lines 21-22). Nowhere does Zandi disclose, *inter alia*, changing a number obtained from rounding to a default integer value obtained from dividing the output value by a scale factor

by a number obtained from rounding to a closest integer to the real-number quotient thereof, as recited in claims 1 and 3.

For at least these reasons, Applicants submit that the combination of Zandi and the Related Art fails to disclose or suggest all the features of claims 1 and 2, as well as all the features of claims 4-5, 7-8, and 10-11, which depend therefrom. It is respectfully requested that the rejection be withdrawn.

Further, with regard to new claims 13-15, Applicants submit that new claims 13-15 also are distinguishable over the applied references for at least the reasons discussed above with regard to claims 1-3.

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance of all pending claims are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,



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